

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

2-日 4-7 6-9

1-2 1-6 2-3 3-4 4-5 5-6 7-10 7-14 8-15 8-19 9-20 9-24 10-11 11-12 12-13 13-14 15-16 16-17 17-18 18-19  
20-21 21-22 22-23 23-24

2-8 4-7 6-9

1-2 1-6 2-3 3-4 4-5 5-6 7-10 7-14 8-15 8-19 9-20 9-24 10-11 11-12 12-13 13-14 15-16 16-17 17-18 18-19  
20-21 21-22 22-23 23-24

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom  
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom

```
-> s ll sss sam
SAMPLE SEARCH INITIATED 10:00:51 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      352 TO ITERATE
```

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FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:   5915 TO   8165
PROJECTED ANSWERS:      360 TO   1080

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-> s ll sss full
FULL SEARCH INITIATED 10:01:08 FILE 'REGISTRY'
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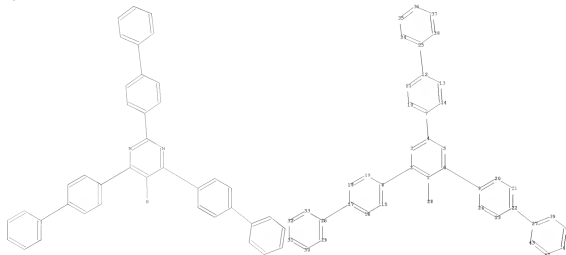
FULL SCREEN SEARCH COMPLETED - 7394 TO ITERATE

100.0% PROCESSED 7394 ITERATIONS  
SEARCH TIME: 00.00.01

665 ANSWERS

L3 665 SEA SSS FUL L1

=>



chain nodes :

28

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 30 31 32 33 34 35 36 37 38 39  
40 41 42 43

chain bonds :

1-28 2-8 4-7 6-9 12-25 17-26 22-27

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-10 7-14 8-15 8-19 9-20 9-24 10-11 11-12 12-13 13-14 15-16 16-17 17-18 18-19  
20-21 21-22 22-23 23-24 25-34 25-38 26-29 26-33 27-39 27-43 29-30 30-31 31-32 32-33 34-35 35-36 36-37  
37-38 39-40 40-41 41-42 42-43

exact bonds :

1-28 2-8 4-7 6-9 12-25 17-26 22-27

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-10 7-14 8-15 8-19 9-20 9-24 10-11 11-12 12-13 13-14 15-16 16-17 17-18 18-19  
20-21 21-22 22-23 23-24 25-34 25-38 26-29 26-33 27-39 27-43 29-30 30-31 31-32 32-33 34-35 35-36 36-37  
37-38 39-40 40-41 41-42 42-43

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom  
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom  
28:CLASS 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom  
41:Atom 42:Atom 43:Atom

L4 STRUCTURE UPLOADED

=> s l4 sss sam

SAMPLE SEARCH INITIATED 10:05:26 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 16 TO ITERATE

100.0% PROCESSED 16 ITERATIONS 1 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 80 TO 560  
PROJECTED ANSWERS: 1 TO 80

L5 1 SEA SSS SAM L4

=> s 14 sss full  
FULL SEARCH INITIATED 10:05:30 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 379 TO ITERATE

100.0% PROCESSED 379 ITERATIONS 9 ANSWERS  
SEARCH TIME: 00.00.01

L6 9 SEA SSS FUL L4

=> d scan l6

L6 9 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

Author/Inventor

9H-Carbazole, 3,3',3''-[2,4,6-pyrimidinetriyltris(2,5-dimethyl-4,1-phenylene)]tris[6-methyl-9-phenyl]- (9CI)

=> s 16

L7 4 L6

=> d 17 ibib hitstr

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Preparation of biscarbazole derivatives as charge-transporting materials, and organic electroluminescent elements

Author/Inventor

Yabe, Masayoshi; Sato, Hideki

Patent Assignee/Corporate Source

Pioneer Corporation, Japan; Mitsubishi Chemical Corporation

Source

PCT Int. Appl., 137 pp. CODEN: PIXXD2

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006067976	A1	20060629	WO 2005-JP22635	20051209

Patent Number (1)

WO 2006067976

Kind Code (1)

A1

Patent Publication Date (1)

20060629

Application Number (1)

WO 2005-JP22635

Application Date (1)

20051209

Priority Patent Number (1)

JP 2004-373981

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20041224

=> d 17 2-4 ibib hitstr

L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent device and display

Author/Inventor

Fukuda, Mitsuhiro; Kita, Hiroshi; Yamada, Taketoshi

Patent Assignee/Corporate Source

Konica Minolta Holdings, Inc., Japan

Source

U.S. Pat. Appl. Publ., 37 pp. CODEN: USXXCO

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004110031	A1	20040610	US 2003-718360	20031120

Patent Number (1)

US 2004110031

Kind Code (1)

A1

Patent Publication Date (1)

20040610

Application Number (1)

US 2003-718360

Application Date (1)

20031120

Priority Patent Number (1)

JP 2002-342192

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20021126

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Electroluminescent devices comprising pyrimidine derivatives

Author/Inventor

Schaefer, Thomas; Bujard, Patrice; Rogers, Jonathan; Bardon, Kristina

Patent Assignee/Corporate Source

Ciba Specialty Chemicals Holding Inc., USA

Source

PCT Int. Appl., 102 pp. CODEN: PIXXD2

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004039786	A1	20040513	WO 2003-EP11637	20031021

Patent Number (1)

WO 2004039786

Kind Code (1)

A1

Patent Publication Date (1)

20040513

Application Number (1)

WO 2003-EP11637

Application Date (1)

20031021

Priority Patent Number (1)

GB 2002-25244

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20021030

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent device and display

Author/Inventor

Matsuura, Mitsunobu; Yamada, Taketoshi; Kita, Hiroshi

Patent Assignee/Corporate Source

Konica Minolta Holdings Inc., Japan

Source

Jpn. Kokai Tokkyo Koho, 34 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004031004	A	20040129	JP 2002-182682	20020624

Patent Number (1)

JP 2004031004

Kind Code (1)

A

Patent Publication Date (1)

20040129

Application Number (1)

JP 2002-182682

Application Date (1)

20020624

Priority Patent Number (1)

JP 2002-182682

Priority Kind Code (1)

A3

Priority Patent Publication Date (1)

20020624

=> d his

{FILE 'HOME' ENTERED AT 10:00:18 ON 11 MAR 2008}

FILE 'REGISTRY' ENTERED AT 10:00:35 ON 11 MAR 2008

L1 STRUCTURE UPLOADED

L2 36 S L1 SSS SAM

L3 665 S L1 SSS FULL

L4 STRUCTURE UPLOADED

L5 1 S L4 SSS SAM

L6 9 S L4 SSS FULL

FILE 'CAPLUS' ENTERED AT 10:05:53 ON 11 MAR 2008

L7 4 S L6

=> s 13

L8 190 L3

=> s 18 and py<-2003

23979567 PY<-2003

L9 131 L8 AND PY<-2003

=> s 19 and electrolumin

=> s 19 and electrolumin?

79402 ELECTROLUMIN?

L10 4 L9 AND ELECTROLUMIN?

=> d 110 1-4 ibib hitstr

L10 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Carbazole derivative for organic electroluminescent devices and organic electroluminescent devices

Author/Inventor

Iwakuma, Toshihiro; Yamamoto, Hiroshi; Hironaka, Yoshio; Ikeda, Hidetsugu; Hosokawa, Chishio; Tomita, Seiji; Arakane, Takashi

Patent Assignee/Corporate Source

Idemitsu Kosan Co., Ltd., Japan

Source

PCT Int. Appl., 68 pp. CODEN: PIXXD2

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003080760	A1	20031002	WO 2003-JP3329	20030319

Patent Number (1)  
WO 2003080760  
Kind Code (1)  
A1  
Patent Publication Date (1)  
20031002  
Application Number (1)  
WO 2003-JP3329  
Application Date (1)  
20030319  
Priority Patent Number (1)  
JP 2002-81234  
Priority Kind Code (1)  
A  
Priority Patent Publication Date (1)  
20020322

L10 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Organic electroluminescent devices

Author/Inventor  
Suzuki, Koichi  
Patent Assignee/Corporate Source  
Canon Inc., Japan

Source  
Jpn. Kokai Tokkyo Koho, 26 pp. CODEN: JKXXAF

Document Type  
Patent

Language  
Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003109763	A	20030411	JP 2001-300546	20010928

Patent Number (1)  
JP 2003109763  
Kind Code (1)  
A  
Patent Publication Date (1)  
20030411  
Application Number (1)  
JP 2001-300546  
Application Date (1)  
20010928  
Priority Patent Number (1)  
JP 2001-300546  
Priority Patent Publication Date (1)  
20010928

L10 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Aromatic heterocyclic derivatives and organic electroluminescent device using them

Author/Inventor  
Matsuura, Mitsunobu; Yamada, Taketoshi; Kita, Hiroshi  
Patent Assignee/Corporate Source  
Konica Co., Japan

Source  
Jpn. Kokai Tokkyo Koho, 38 pp. CODEN: JKXXAF

Document Type  
Patent

Language  
Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003045662	A	20030214	JP 2001-233461	20010801

Patent Number (1)  
JP 2003045662  
Kind Code (1)  
A  
Patent Publication Date (1)  
20030214

Application Number (1)  
JP 2001-233461  
Application Date (1)  
20010801  
Priority Patent Number (1)  
JP 2001-233461  
Priority Patent Publication Date (1)  
20010801

L10 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Electroluminescent devices

Author/Inventor

Sakon, Yohta; Ohnuma, Teruyuki; Hashimoto, Mitsuru; Saito, Shogo; Tsutsui, Tetsuo; Adachi, Chihaya

Patent Assignee/Corporate Source

Ricoh Co., Ltd., Japan

Source

U.S., 59 pp. CODEN: USXXAM

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5077142	A	19911231	US 1990-511407	19900419

Patent Number (1)

US 5077142

Kind Code (1)

A

Patent Publication Date (1)

19911231

Application Number (1)

US 1990-511407

Application Date (1)

19900419

Priority Patent Number (1)

JP 1989-102057

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

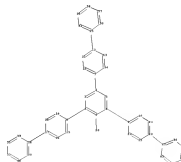
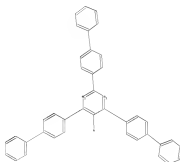
19890420

=>

=>

=>

=>



chain nodes :

28

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 30 31 32 33 34 35 36 37 38 39

40 41 42 43

chain bonds :

1-28 2-8 4-7 6-9 12-25 17-26 22-27

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-10 7-14 8-15 8-19 9-20 9-24 10-11 11-12 12-13 13-14 15-16 16-17 17-18 18-19  
20-21 21-22 22-23 23-24 25-34 25-38 26-29 26-33 27-39 27-43 29-30 30-31 31-32 32-33 34-35 35-36  
36-37 37-38 39-40 40-41 41-42 42-43

exact/norm bonds :

1-2 1-6 1-28 2-3 2-8 3-4 4-5 4-7 5-6 6-9 12-25 17-26 22-27

normalized bonds :

7-10 7-14 8-15 8-19 9-20 9-24 10-11 11-12 12-13 13-14 15-16 16-17 17-18 18-19 20-21 21-22 22-23 23-24  
25-34 25-38 26-29 26-33 27-39 27-43 29-30 30-31 31-32 32-33 34-35 35-36 36-37 37-38 39-40 40-41  
41-42 42-43

G1:C,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom  
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom  
27:Atom 28:CLASS 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom  
39:Atom 40:Atom 41:Atom 42:Atom 43:Atom

L11 STRUCTURE UPLOADED

=> s l11 sss sam  
SAMPLE SEARCH INITIATED 10:58:58 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 3742 TO ITERATE

53.4% PROCESSED 2000 ITERATIONS 6 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 71172 TO 78508  
PROJECTED ANSWERS: 23 TO 425

L12 6 SEA SSS SAM L11

=> s l11 sss full  
FULL SEARCH INITIATED 10:59:03 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 76257 TO ITERATE

100.0% PROCESSED 76257 ITERATIONS 194 ANSWERS  
SEARCH TIME: 00.00.01

L13 194 SEA SSS FUL L11

=> s l13  
L14 130 L13

=> s l14 and py<-2003  
23979567 PY<-2003  
L15 78 L14 AND PY<-2003

=> s l15 and electrolumin?  
79402 ELECTROLUMIN?  
L16 17 L15 AND ELECTROLUMIN?



=> d 116 1-17 ibib hitstr

L16 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent device and display with phenyl pyridine derivative

Author/Inventor

Kita, Hiroshi; Yamada, Taketoshi; Matsuura, Mitsunobu; Inoue, Yoshio; Oi, Shuichi; Takayama, Shoichi

Patent Assignee/Corporate Source

Konica Co., Japan

Source

Jpn. Kokai Tokkyo Koho, 26 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003282270	A	20031003	JP 2002-82918	20020325

Patent Number (1)

JP 2003282270

Kind Code (1)

A

Patent Publication Date (1)

20031003

Application Number (1)

JP 2002-82918

Application Date (1)

20020325

Priority Patent Number (1)

JP 2002-82918

Priority Patent Publication Date (1)

20020325

L16 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent devices showing various emission color and high brightness with low impress voltage

Author/Inventor

Suzuki, Koichi; Senoo, Akihiro

Patent Assignee/Corporate Source

Canon Inc., Japan

Source

Jpn. Kokai Tokkyo Koho, 29 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003105332	A	20030409	JP 2001-299531	20010928

Patent Number (1)

JP 2003105332

Kind Code (1)

A

Patent Publication Date (1)

20030409

Application Number (1)

JP 2001-299531

Application Date (1)

20010928

Priority Patent Number (1)

JP 2001-299531

Priority Patent Publication Date (1)

20010928

L16 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

Title

A Novel Class of Emitting Amorphous Molecular Materials with Bipolar Character for Electroluminescence

Author/Inventor

Doi, Hidekaru; Kinoshita, Motoi; Okumoto, Kenji; Shirota, Yasuhiko

Patent Assignee/Corporate Source

Source Department of Applied Chemistry, Faculty of Engineering, Osaka University, Yamadaoka, Suita, Osaka, 565-0871, Japan  
Chemistry of Materials (2003 ), 15(5), 1080-1089 CODEN: CMATEX; ISSN: 0897-4756  
Document Type Journal  
Language English

L16 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

Title Electroluminescent element  
Author/Inventor Igarashi, Tatsuya; Qiu, Xuepeng  
Patent Assignee/Corporate Source Fuji Photo Film Co., Ltd., Japan  
Source Jpn. Kokai Tokkyo Koho, 13 pp. CODEN: JKXXAF  
Document Type Patent  
Language Japanese

Patent Information				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003027048	A	20030129	JP 2001-211270	20010711

Patent Number (1)  
JP 2003027048  
Kind Code (1)  
A  
Patent Publication Date (1)  
20030129  
Application Number (1)  
JP 2001-211270  
Application Date (1)  
20010711  
Priority Patent Number (1)  
JP 2001-211270  
Priority Kind Code (1)  
A  
Priority Patent Publication Date (1)  
20010711

L16 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

Title New class of hole-blocking amorphous molecular materials and their application in blue-violet-emitting fluorescent and green-emitting phosphorescent organic electroluminescent devices  
Author/Inventor Okumoto, Kenji; Shirota, Yasuhiko  
Patent Assignee/Corporate Source Department of Applied Chemistry, Faculty of Engineering, Osaka University, Yamadaoka, Suita, Osaka, 565-0871, Japan  
Source Chemistry of Materials (2003 ), 15(3), 699-707 CODEN: CMATEX; ISSN: 0897-4756  
Document Type Journal  
Language English

L16 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

Title Organic electroluminescent device containing aromatic condensed ring compound  
Author/Inventor Suzuki, Koichi; Senoo, Akihiro; Tanabe, Hiroshi  
Patent Assignee/Corporate Source Canon Inc., Japan  
Source Jpn. Kokai Tokkyo Koho, 50 pp. CODEN: JKXXAF  
Document Type Patent  
Language Japanese  
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002329580	A	20021115	JP 2002-36804	20020214

Patent Number (1)  
JP 2002329580  
Kind Code (1)  
A  
Patent Publication Date (1)  
20021115  
Application Number (1)  
JP 2002-36804  
Application Date (1)  
20020214  
Priority Patent Number (1)  
JP 2001-46225  
Priority Kind Code (1)  
A  
Priority Patent Publication Date (1)  
20010222

L16 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2008 ACS ON STN

Title  
Electroluminescent device with arylene derivatives  
Author/Inventor  
Igarashi, Tatsuya  
Patent Assignee/Corporate Source  
Fuji Photo Film Co., Ltd., Japan  
Source  
Jpn. Kokai Tokkyo Koho, 24 pp. CODEN: JKXXAF  
Document Type  
Patent  
Language  
Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002324677	A	20021108	JP 2001-129571	20010426

Patent Number (1)  
JP 2002324677  
Kind Code (1)  
A  
Patent Publication Date (1)  
20021108  
Application Number (1)  
JP 2001-129571  
Application Date (1)  
20010426  
Priority Patent Number (1)  
JP 2001-129571  
Priority Patent Publication Date (1)  
20010426

L16 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2008 ACS ON STN

Title  
Development of hole-blocking amorphous molecular materials and their application in organic light-emitting diodes  
Author/Inventor  
Shirota, Yasuhiko; Kinoshita, Motoi; Okumoto, Kenji  
Patent Assignee/Corporate Source  
Department of Applied Chemistry, Faculty of Engineering, Osaka University, Yamadaoka, Suita, Osaka, 565-0871, Japan  
Source  
Proceedings of SPIE-The International Society for Optical Engineering (2002 ), 4464(Organic Light-Emitting Materials and Devices V), 203-210 CODEN: PSISDG; ISSN: 0277-786X  
Document Type  
Journal  
Language  
English

L16 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2008 ACS ON STN

Title  
Benzene tri-substituted with hydrocarbon aromatic condensed ring for organic LED devices  
Author/Inventor

Kohama, Toru; Nishiyama, Takuya; Kitazawa, Daisuke  
Patent Assignee/Corporate Source  
Toray Industries, Inc., Japan

Source

Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002050481	A	20020215	JP 2000-236645	20000804

Patent Number (1)

JP 2002050481

Kind Code (1)

A

Patent Publication Date (1)

20020215

Application Number (1)

JP 2000-236645

Application Date (1)

20000804

Priority Patent Number (1)

JP 2000-236645

Priority Patent Publication Date (1)

20000804

L16 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Development of high-performance blue-violet-emitting organic electroluminescent devices

Author/Inventor

Okumoto, Kenji; Shiota, Yasuhiko

Patent Assignee/Corporate Source

Department of Applied Chemistry, Faculty of Engineering, Osaka University, Yamadaoka, Suita, Osaka, 565-0871, Japan

Source

Applied Physics Letters (2001 ), 79(9), 1231-1233 CODEN: APPLAB; ISSN: 0003-6951

Document Type

Journal

Language

English

L16 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Novel starshaped molecules based on fluorene

Author/Inventor

Kreger, K.; Jandke, M.; Stroehriegel, P.

Patent Assignee/Corporate Source

Makromolekulare Chemie I und Bayreuther Institut für Makromolekulforschung(BIMF), Universitätsstrasse 30, Universität Bayreuth, Bayreuth, 95448, Germany

Source

Synthetic Metals (2001 ), 119(1-3), 163-164 CODEN: SYMEDZ; ISSN: 0379-6779

Document Type

Journal

Language

English

L16 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Amino or styryl compound, organic thin film, and electroluminescent device

Author/Inventor

Hosokawa, Chishio; Funahashi, Masakazu; Azuma, Hisaohiro; Ikeda, Shuji; Arai, Hiromasa

Patent Assignee/Corporate Source

Idemitsu Kosan Co., Ltd., Japan

Source

Jpn. Kokai Tokkyo Koho, 30 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000273056	A	20001003	JP 1999-352216	19991210

Patent Number (1)  
JP 2000273056  
Kind Code (1)  
A  
Patent Publication Date (1)  
20001003  
Application Number (1)  
JP 1999-352216  
Application Date (1)  
19991210  
Priority Patent Number (1)  
JP 1999-10660  
Priority Kind Code (1)  
A  
Priority Patent Publication Date (1)  
19990119

L16 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Aromatic amino compounds, their preparation, and uses in electroluminescent element or electrophotographic photoreceptor

Author/Inventor

Fujino, Yasumitsu; Ueda, Hideaki; Furukawa, Keiichi

Patent Assignee/Corporate Source

Minolta Camera Co., Ltd., Japan

Source

Jpn. Kokai Tokkyo Koho, 35 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000247932	A	20000912	JP 1999-52513	19990301

Patent Number (1)  
JP 2000247932  
Kind Code (1)  
A  
Patent Publication Date (1)  
20000912  
Application Number (1)  
JP 1999-52513  
Application Date (1)  
19990301  
Priority Patent Number (1)  
JP 1999-52513  
Priority Patent Publication Date (1)  
19990301

L16 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Amino compound, manufacture of the compound, and its use in electrophotographic photoconductor and electroluminescent device

Author/Inventor

Fujino, Yasumitsu; Ueda, Hideaki; Furukawa, Keiichi

Patent Assignee/Corporate Source

Minolta Camera Co., Ltd., Japan

Source

Jpn. Kokai Tokkyo Koho, 32 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000169448	A	20000620	JP 1998-346820	19981207

Patent Number (1)  
JP 2000169448

Kind Code (1)

A

Patent Publication Date (1)

20000620

Application Number (1)

JP 1998-346820

Application Date (1)

19981207

Priority Patent Number (1)

JP 1998-346820

Priority Patent Publication Date (1)

19981207

L16 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Trisbenzazole compound for electroluminescent material

Author/Inventor

Sato, Tadahisa

Patent Assignee/Corporate Source

Fuji Photo Film Co., Ltd., Japan

Source

Jpn. Kokai Tokkyo Koho, 16 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11279165	A	19991012	JP 1998-84758	19980330

Patent Number (1)

JP 11279165

Kind Code (1)

A

Patent Publication Date (1)

19991012

Application Number (1)

JP 1998-84758

Application Date (1)

19980330

Priority Patent Number (1)

JP 1998-84758

Priority Patent Publication Date (1)

19980330

L16 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

Title

A blue-emitting organic electroluminescent device using a novel emitting amorphous molecular material, 5,5'-bis(dimesitylboryl)-2,2'-bithiophene

Author/Inventor

Noda, Tetsuya; Ogawa, Hiromitsu; Shirota, Yasuhiko

Patent Assignee/Corporate Source

Dep. Appl. Chem., Fac. Eng., Osaka Univ., Suita, 565, Japan

Source

Advanced Materials (Weinheim, Germany) (1999), 11(4), 283-285 CODEN: ADVMEW; ISSN: 0935-9648

Document Type

Journal

Language

English

L16 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Synthesis of Soluble, Blue-Light-Emitting Rigid-Rod Polyamides and Polyimides Prepared from 2',6'-(4,4'-diamino-p-quinquephenyl)-Biphenyl)-4,4'-diamino-p-quinquephenyl

Author/Inventor

Spiliopoulos, Ioakim K.; Mikroyannidis, John A.

Patent Assignee/Corporate Source

Chemical Technology Laboratory Department of Chemistry, University of Patras, Patras, GR-26500, Greece

Source

Macromolecules (1998), 31(2), 515-521 CODEN: MAMOBX; ISSN: 0024-9297

Document Type

Journal  
Language  
English

=> s pyrimidine  
57493 PYRIMIDINE  
16133 PYRIMIDINES  
L17 63763 PYRIMIDINE  
(PYRIMIDINE OR PYRIMIDINES)

=> s l17 and electrolumin?  
79402 ELECTROLUMIN?  
L18 57 L17 AND ELECTROLUMIN?

=> s l18 and py<-2003  
23979567 PY<-2003  
L19 25 L18 AND PY<-2003

=> d l19 ibib

L19 ANSWER 1 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title Organic light-emitting diode devices with improved operational stability  
Author/Inventor Jarikov, Viktor V.  
Patent Assignee/Corporate Source Eastman Kodak Company, USA  
Source

U.S. Pat. Appl. Publ., 108 pp., Cont.-in-part of U.S. Ser. No. 131,801, abandoned. CODEN: USXXCO

Document Type  
Patent

Language  
English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004076853	A1	20040422	US 2003-634324	20030805

Patent Number (1)

US 2004076853

Kind Code (1)

A1

Patent Publication Date (1)

20040422

Application Number (1)

US 2003-634324

Application Date (1)

20030805

Priority Patent Number (1)

US 2002-131801

Priority Kind Code (1)

B2

Priority Patent Publication Date (1)

20020424

=> d l19 2-25 ibib

L19 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title New pyrimidine - and fluorene-containing oligo(arylene)s: synthesis, crystal structures, optoelectronic properties and a theoretical study

Author/Inventor Hughes, Gregory; Wang, Changsheng; Batsanov, Andrei S.; Fern, Michael; Frank, Stephen; Bryce, Martin R.; Perepichka, Igor F.; Monkman, Andrew P.; Lyons, Benjamin P.

Patent Assignee/Corporate Source Department of Chemistry, University of Durham, Durham, DH1 3LE, UK

Source Organic & Biomolecular Chemistry (2003 ), 1(17), 3069-3077 CODEN: OBCRAK; ISSN: 1477-0520

Document Type  
Journal

Language  
English

L19 ANSWER 3 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Synthesis, photoluminescence and electroluminescence of new 1H-pyrazolo[3,4-b]quinoxaline derivatives

Author/Inventor

Wang, Pengfei; Xie, Zhiyuan; Hong, Ziruo; Tang, Jianxin; Wong, Oiyen; Lee, Chun-Sing; Wong, Ningbew; Lee, Shuitong

Patent Assignee/Corporate Source

Centre of Super-Diamond and Advance Films (COSDAF) and Department of Physics and Materials Sciences, City University of Hong Kong, Hong Kong, SAR, Peop. Rep. China

Source

Journal of Materials Chemistry (2003 ), 13(8), 1894-1899 CODEN: JMACEP; ISSN: 0959-9428

Document Type

Journal

Language

English

L19 ANSWER 4 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent device

Author/Inventor

Saito, Akito; Tanabe, Hiroshi; Ueno, Kazunori

Patent Assignee/Corporate Source

Canon Inc., Japan

Source

Jpn. Kokai Tokkyo Koho, 23 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003123973	A	20030425	JP 2001-311596	20011009

Patent Number (1)

JP 2003123973

Kind Code (1)

A

Patent Publication Date (1)

20030425

Application Number (1)

JP 2001-311596

Application Date (1)

20011009

Priority Patent Number (1)

JP 2001-311596

Priority Patent Publication Date (1)

20011009

L19 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Method for dissolving carbon nanotubes

Author/Inventor

Sun, Yi; Wilson, Stephen

Patent Assignee/Corporate Source

New York University, USA

Source

PCT Int. Appl., 43 pp. CODEN: PIXXD2

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002088025	A1	20021107	WO 2002-US13193	20020426

Patent Number (1)

WO 2002088025

Kind Code (1)

A1

Patent Publication Date (1)

20021107

Application Number (1)



WO 2002-US13193  
Application Date (1)  
20020426  
Priority Patent Number (1)  
US 2001-286340P  
Priority Kind Code (1)  
P  
Priority Patent Publication Date (1)  
20010426

L19 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Highly bright blue organic light-emitting devices using spirofluorene-cored conjugated compounds  
Author/Inventor  
Wu, C. C.; Lin, Y. T.; Chiang, H. H.; Cho, T. Y.; Chen, C. W.; Wong, K. T.; Liao, Y. L.; Lee, G. H.; Peng, S. M.  
Patent Assignee/Corporate Source  
Graduate Institute of Electronics Engineering, Graduate Institute of Electro-Optical Engineering, Department of Electrical Engineering, National Taiwan University, Taipei, 10617, Taiwan  
Source  
Applied Physics Letters (2002), 81(4), 577-579 CODEN: APPLAB; ISSN: 0003-6951  
Document Type  
Journal  
Language  
English

L19 ANSWER 7 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Synthesis of light-emitting  $\pi$ -conjugated poly(pyrimido[5,4-d]pyrimidine-2,6-diyl) with bulky side chains and high molecular weight  
Author/Inventor  
Lee, Bang-Lin; Yamamoto, Takakazu  
Patent Assignee/Corporate Source  
Chemical Resources Laboratory, Tokyo Institute of Technology, Midori-ku, Yokohama, 226-8503, Japan  
Source  
Polymer (2002), 43(16), 4531-4534 CODEN: POLMAG; ISSN: 0032-3861  
Document Type  
Journal  
Language  
English

L19 ANSWER 8 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Mixed vapor deposited films for electroluminescent devices  
Author/Inventor  
Forrest, Stephen Ross; Thompson, Mark Edward; Burrows, Paul Edward; McCarty, Dennis Matthew; Sapochak, Linda Susan; Cronin, Jon Andrew  
Patent Assignee/Corporate Source  
The Trustees of Princeton University, USA  
Source  
U.S., 47 pp., Cont-in-part of U.S. 5,707,745. CODEN: USXXAM  
Document Type  
Patent  
Language  
English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6358631	B1	20020319	US 1996-693359	19960806

Patent Number (1)  
US 6358631  
Kind Code (1)  
B1  
Patent Publication Date (1)  
20020319  
Application Number (1)  
US 1996-693359  
Application Date (1)  
19960806  
Priority Patent Number (1)  
US 1994-354674  
Priority Kind Code (1)  
A2

Priority Patent Publication Date (1)  
19941213

L19 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title Suzuki Coupling Approach for the Synthesis of Phenylene-Pyrimidine Alternating Oligomers for Blue Light-Emitting Material  
Author/Inventor Wong, Ken-Tsung; Hung, Tsung Shi; Lin, Yuting; Wu, Chung-Chih; Lee, Gene-Hsiang; Peng, Shie-Ming; Chou, Chung Hsien; Su, Yuhlong Oliver  
Patent Assignee/Corporate Source Department of Chemistry and Graduate Institute of Electro-Optical Engineering, National Taiwan University, Taipei, 106, Taiwan  
Source Organic Letters (2002), 4(4), 513-516 CODEN: ORLEF7; ISSN: 1523-7060  
Document Type Journal  
Language English

L19 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title New electron-transporting materials for light emitting diodes: 1,3,4-oxadiazole-pyridine and 1,3,4-oxadiazole-pyrimidine hybrids  
Author/Inventor Wang, Changsheng; Jung, Gun-Young; Batsanov, Andrei S.; Bryce, Martin R.; Petty, Michael C.  
Patent Assignee/Corporate Source Department of Chemistry, University of Durham, Durham, DH1 3LE, UK  
Source Journal of Materials Chemistry (2002), 12(2), 173-180 CODEN: JMACEP; ISSN: 0959-9428  
Document Type Journal  
Language English

L19 ANSWER 11 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title New, efficient electroluminescent materials based on organometallic Ir complexes  
Author/Inventor Grushin, Vladimir V.; Herron, Norman; LeCloux, Daniel D.; Marshall, William J.; Petrov, Viacheslav A.; Wang, Ying  
Patent Assignee/Corporate Source Central Research and Development, Experiment Station, E. I. DuPont de Nemours and Co., Inc., Wilmington, DE, 19880-0328, USA  
Source Chemical Communications (Cambridge, United Kingdom) (2001), (16), 1494-1495 CODEN: CHCOFS; ISSN: 1359-7345  
Document Type Journal  
Language English

L19 ANSWER 12 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title Preparation of novel 2-(2-pyridyl)pyrimidine derivatives as co-catalysts  
Author/Inventor Shintou, Taichi  
Patent Assignee/Corporate Source Sankio Chemical Co., Ltd., Japan  
Source PCT Int. Appl., 23 pp. CODEN: PIXXD2  
Document Type Patent  
Language Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001019815	A1	20010322	WO 2000-JP6233	20000912

Patent Number (1)  
WO 2001019815  
Kind Code (1)  
A1  
Patent Publication Date (1)  
20010322  
Application Number (1)

WO 2000-JP6233  
Application Date (1)  
20000912  
Priority Patent Number (1)  
JP 1999-259456  
Priority Kind Code (1)  
A  
Priority Patent Publication Date (1)  
19990913

L19 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Conducting polymers from polyvinylquinoxalines for semiconductor devices  
Author/Inventor  
Sage, Ian Charles; Wood, Emma Louise; Till, Stephen John; Feast, William James; Peace, Richard John  
Patent Assignee/Corporate Source  
The Secretary of State for Defence, UK  
Source  
PCT Int. Appl., 34 pp. CODEN: PIXXD2  
Document Type  
Patent  
Language  
English  
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000070692	A1	20001123	WO 2000-GB1692	20000503

Patent Number (1)  
WO 2000070692  
Kind Code (1)  
A1  
Patent Publication Date (1)  
20001123  
Application Number (1)  
WO 2000-GB1692  
Application Date (1)  
20000503  
Priority Patent Number (1)  
GB 1999-10964  
Priority Kind Code (1)  
A  
Priority Patent Publication Date (1)  
19990512

L19 ANSWER 14 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Organic electroluminescent devices  
Author/Inventor  
Nakatsuka, Masakatsu; Kitamoto, Noriko  
Patent Assignee/Corporate Source  
Mitsui Chemicals Inc., Japan  
Source  
Jpn. Kokai Tokkyo Koho, 17 pp. CODEN: JKXXAF  
Document Type  
Patent  
Language  
Japanese  
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11265787	A	19990928	JP 1998-367681	19981224

Patent Number (1)  
JP 11265787  
Kind Code (1)  
A  
Patent Publication Date (1)  
19990928  
Application Number (1)  
JP 1998-367681  
Application Date (1)  
19981224  
Priority Patent Number (1)

JP 1998-5102  
Priority Kind Code (1)  
A  
Priority Patent Publication Date (1)  
19980113

L19 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
Title

Light-emitting dendrimers and devices

Author/Inventor

Samuel, Ifor David William; Halim, Mounir; Burn, Paul Leslie; Pillow, Jonathan Nigel Gerard

Patent Assignee/Corporate Source

ISIS Innovation Limited, UK

Source

PCT Int. Appl., 71 pp. CODEN: PIXXD2

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9921935	A1	19990506	WO 1998-GB3172	19981023

Patent Number (1)

WO 9921935

Kind Code (1)

A1

Patent Publication Date (1)

19990506

Application Number (1)

WO 1998-GB3172

Application Date (1)

19981023

Priority Patent Number (1)

GB 1997-22348

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

19971023

L19 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
Title

An organic light emitting device containing a protection layer

Author/Inventor

Thompson, Mark E.; Forrest, Stephen R.; Burrows, Paul; Garbuzov, Dmitri Z.; Shen, Zilan; Cronin, Jon A.; et al.

Patent Assignee/Corporate Source

The Trustees of Princeton University, USA; The University of Southern California

Source

PCT Int. Appl., 107 pp. CODEN: PIXXD2

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9828767	A1	19980702	WO 1997-US23952	19971223

Patent Number (1)

WO 9828767

Kind Code (1)

A1

Patent Publication Date (1)

19980702

Application Number (1)

WO 1997-US23952

Application Date (1)

19971223

Priority Patent Number (1)

US 1996-771815

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

## L19 ANSWER 17 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title Polymer light emitting diode  
 Author/Inventor Samuel, Ifor David William; Monkman, Andrew; Rebout, Eymard; Dailey, Stuart  
 Patent Assignee/Corporate Source University of Durham, UK; Samuel, Ifor David William; Monkman, Andrew; Rebout, Eymard; Dailey, Stuart  
 Source PCT Int. Appl., 40 pp. CODEN: PIXXD2  
 Document Type Patent  
 Language English

## Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9820565	A1	19980514	WO 1997-GB3019	19971107

Patent Number (1)  
 WO 9820565  
 Kind Code (1)  
 A1  
 Patent Publication Date (1)  
 19980514  
 Application Number (1)  
 WO 1997-GB3019  
 Application Date (1)  
 19971107  
 Priority Patent Number (1)  
 GB 1996-23204  
 Priority Kind Code (1)  
 A  
 Priority Patent Publication Date (1)  
 19961107

## L19 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title Mixed vapor deposited films for electroluminescent devices  
 Author/Inventor Forrest, Stephen R.; Thompson, Mark E.; Burrows, Paul E.; Sapochak, Linda S.; McCarty, Dennis M.; Gronin, Jon A.  
 Patent Assignee/Corporate Source Trustees of Princeton University, USA; University of Southern California  
 Source PCT Int. Appl., 103 pp. CODEN: PIXXD2  
 Document Type Patent  
 Language English

## Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9806242	A1	19980212	WO 1997-US12654	19970718

Patent Number (1)  
 WO 9806242  
 Kind Code (1)  
 A1  
 Patent Publication Date (1)  
 19980212  
 Application Number (1)  
 WO 1997-US12654  
 Application Date (1)  
 19970718  
 Priority Patent Number (1)  
 US 1996-693359  
 Priority Kind Code (1)  
 A  
 Priority Patent Publication Date (1)  
 19960806

## L19 ANSWER 19 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title Organic electroluminescent device containing ellagic acid derivative phosphor

Author/Inventor Onishi, Toshihiro; Noguchi, Kiminobu; Doi, Shuji

Patent Assignee/Corporate Source Sumitomo Chemical Co., Ltd., Japan

Source Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKXXAF

Document Type Patent

Language Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09302337	A	19971125	JP 1996-123565	19960517

Patent Number (1)  
JP 09302337

Kind Code (1)  
A

Patent Publication Date (1)  
19971125

Application Number (1)  
JP 1996-123565

Application Date (1)  
19960517

Priority Patent Number (1)  
JP 1996-123565

Priority Patent Publication Date (1)  
19960517

L19 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title Organic electroluminescent device

Author/Inventor Hamada, Juji; Sano, Kenji; Fujii, Takanori; Shibata, Kenichi

Patent Assignee/Corporate Source Sanyo Denki KK, Japan; Sanyo Electric Co., Ltd.

Source Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF

Document Type Patent

Language Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08199163	A	19960806	JP 1995-28740	19950124

Patent Number (1)  
JP 08199163

Kind Code (1)  
A

Patent Publication Date (1)  
19960806

Application Number (1)  
JP 1995-28740

Application Date (1)  
19950124

Priority Patent Number (1)  
JP 1995-28740

Priority Kind Code (1)  
A

Priority Patent Publication Date (1)  
19950124

L19 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title Use of pyrimidine group-containing conjugated compounds as electroluminescent materials

Author/Inventor Gompper, Rudolf; Brandl, Stefan; Mair, Hans-Juergen

Patent Assignee/Corporate Source Hoechst A.-G., Germany; Covion Organic Semiconductors GmbH

Source

Eur. Pat. Appl., 27 pp. CODEN: EPXXDW

Document Type

Patent

Language

German

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 690052	A2	19960103	EP 1995-109928	19950626

Patent Number (1)

EP 690052

Kind Code (1)

A2

Patent Publication Date (1)

19960103

Application Number (1)

EP 1995-109928

Application Date (1)

19950626

Priority Patent Number (1)

DE 1994-4423098

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

19940701

L19 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Electroluminescent device with high luminance

Author/Inventor

Shibata, Toyoko; Suzuki, Shinichi

Patent Assignee/Corporate Source

Konishiroku Photo Ind, Japan

Source

Jpn. Kokai Tokkyo Koho, 9 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07292353	A	19951107	JP 1994-90046	19940427

Patent Number (1)

JP 07292353

Kind Code (1)

A

Patent Publication Date (1)

19951107

Application Number (1)

JP 1994-90046

Application Date (1)

19940427

Priority Patent Number (1)

JP 1994-90046

Priority Patent Publication Date (1)

19940427

L19 ANSWER 23 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Alkyl-substituted poly(2,5-pyrimidinediyl) and their manufacture

Author/Inventor

Yamamoto, Ryuichi; Takahashi, Hiroshi

Patent Assignee/Corporate Source

Showa Denko Kk, Japan

Source

Jpn. Kokai Tokkyo Koho, 6 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07196780	A	19950801	JP 1993-352789	19931229

Patent Number (1)

JP 07196780

Kind Code (1)

A

Patent Publication Date (1)

19950801

Application Number (1)

JP 1993-352789

Application Date (1)

19931229

Priority Patent Number (1)

JP 1993-352789

Priority Patent Publication Date (1)

19931229

L19 ANSWER 24 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Electroluminescent devices using aromatic vinyl compounds

Author/Inventor

Tanioka, Soji; Onda, Yoshiro; Takahashi, Yukio; Maruyama, Kazumasa

Patent Assignee/Corporate Source

Shin-Etsu Kagaku Kogyo K. K., Japan

Source

Jpn. Kokai Tokkyo Koho, 5 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04046987	A	19920217	JP 1990-155095	19900615

Patent Number (1)

JP 04046987

Kind Code (1)

A

Patent Publication Date (1)

19920217

Application Number (1)

JP 1990-155095

Application Date (1)

19900615

Priority Patent Number (1)

JP 1990-155095

Priority Patent Publication Date (1)

19900615

L19 ANSWER 25 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Liquid crystal components with a trimethylenoxy group

Author/Inventor

Kelly, Stephen

Patent Assignee/Corporate Source

Hoffmann-La Roche, F., und Co. A.-G., Switz.

Source

Eur. Pat. Appl., 37 pp. CODEN: EPXXDW

Document Type

Patent

Language

German

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 344557	A2	19891206	EP 1989-109129	19890520

Patent Number (1)

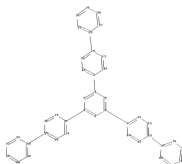
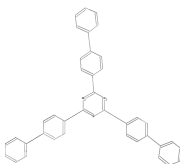
EP 344557

Kind Code (1)



A2  
 Patent Publication Date (1)  
 19891206  
 Application Number (1)  
 EP 1989-109129  
 Application Date (1)  
 19890520  
 Priority Patent Number (1)  
 CH 1988-2093  
 Priority Kind Code (1)  
 A  
 Priority Patent Publication Date (1)  
 19880601

==>  
 ==>  
 ==>



ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38  
 39 40 41 42

chain bonds :

2-8 4-7 6-9 12-25 17-26 22-27

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-10 7-14 8-15 8-19 9-20 9-24 10-11 11-12 12-13 13-14 15-16 16-17 17-18 18-19  
 20-21 21-22 22-23 23-24 25-33 25-37 26-28 26-32 27-38 27-42 28-29 29-30 30-31 31-32 33-34 34-35  
 35-36 36-37 38-39 39-40 40-41 41-42

exact/norm bonds :

1-2 1-6 2-3 2-8 3-4 4-5 4-7 5-6 6-9 12-25 17-26 22-27

normalized bonds :

7-10 7-14 8-15 8-19 9-20 9-24 10-11 11-12 12-13 13-14 15-16 16-17 17-18 18-19 20-21 21-22 22-23 23-24  
 25-33 25-37 26-28 26-32 27-38 27-42 28-29 29-30 30-31 31-32 33-34 34-35 35-36 36-37 38-39 39-40  
 40-41 41-42

G1:C,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom  
 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom  
 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom  
 39:Atom 40:Atom 41:Atom 42:Atom

L20 STRUCTURE UPLOADED

=> s 120 sss sam  
SAMPLE SEARCH INITIATED 11:43:14 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 362 TO ITERATE

100.0% PROCESSED 362 ITERATIONS 6 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 6099 TO 8381  
PROJECTED ANSWERS: 6 TO 266

L21 6 SEA SSS SAM L20

=> s 120 sss full  
FULL SEARCH INITIATED 11:43:19 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 7272 TO ITERATE

100.0% PROCESSED 7272 ITERATIONS 73 ANSWERS  
SEARCH TIME: 00.00.01

L22 73 SEA SSS FUL L20

=> s 122  
L23 82 L22

=> s 123 and py<-2003  
23979567 PY<-2003

L24 16 L23 AND PY<-2003

=> d 124 1-16 ibib hitstr

L24 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Electroluminescent materials and electroluminescent elements using them

Author/Inventor

Kita, Hiroshi; Suzuki, Yoshiyuki; Yamada, Taketoshi; Nakamura, Kazuaki; Ueda, Noriko; Okubo, Yasushi

Patent Assignee/Corporate Source

Konica Corporation, Japan

Source

U.S. Pat. Appl. Publ., 60pp., Cont.-in-part of U.S. Ser. No. 653,842. CODEN: USXXCO

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2007020485	A1	20070125	US 2006-493108	20060726

Patent Number (1)

US 2007020485

Kind Code (1)

A1

Patent Publication Date (1)

20070125

Application Number (1)

US 2006-493108

Application Date (1)

20060726

Priority Patent Number (1)

JP 1998-370452

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

19981225

L24 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent device and display with phenyl pyridine derivative

Author/Inventor

Kita, Hiroshi; Yamada, Taketoshi; Matsuura, Mitsunobu; Inoue, Yoshio; Oi, Shuichi; Takayama, Shoichi

Patent Assignee/Corporate Source

Konica Co., Japan

Source

Jpn. Kokai Tokkyo Koho, 26 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO	KIND	DATE	APPLICATION NO	DATE
JP 2003262270	A	20031003	JP 2002-82918	20020325

Patent Number (1)

JP 2003262270

Kind Code (1)

A

Patent Publication Date (1)

20031003

Application Number (1)

JP 2002-82918

Application Date (1)

20020325

Priority Patent Number (1)

JP 2002-82918

Priority Patent Publication Date (1)

20020325

L24 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Binuclear and Starburst Organoplatinum(II) Complexes of 2,2'-Dipyridylamino Derivative Ligands: Structures, Fluxionality, and Luminescence

Author/Inventor

Liu, Qin-De; Jia, Wen-Li; Wu, Gang; Wang, Suning

Patent Assignee/Corporate Source

Department of Chemistry, Queen's University, Kingston, ON, K7L 3N6, Can.

Source

Organometallics (2003 ), 22(18), 3781-3791 CODEN: ORGND7; ISSN: 0276-7333

Document Type

Journal

Language

English

L24 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic light emitting devices

Author/Inventor

Aziz, Hany; Hu, Nan-Xing; Hor, Ah-Mee; Popovic, Zoran D.

Patent Assignee/Corporate Source

Xerox Corporation, USA

Source

Eur. Pat. Appl., 31 pp. CODEN: EPXXDW

Document Type

Patent

Language

English

Patent Information

PATENT NO	KIND	DATE	APPLICATION NO	DATE
EP 1311009	A2	20030514	EP 2002-25109	20021108

Patent Number (1)

EP 1311009

Kind Code (1)

A2

Patent Publication Date (1)

20030514

Application Number (1)

EP 2002-25109

Application Date (1)

20021108

Priority Patent Number (1)

US 2001-5930  
Priority Kind Code (1)  
A  
Priority Patent Publication Date (1)  
20011108

L24 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Organic light emitting devices  
Author/Inventor  
Aziz, Hany; Hu, Nan-Xing; Vong, Cuong; Hor, Ah-Mee; Popovic, Zoran D.  
Patent Assignee/Corporate Source  
Xerox Corporation, USA  
Source  
U.S. Pat. Appl. Publ., 21 pp. CODEN: USXXCO  
Document Type  
Patent  
Language  
English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003087125	A1	20030508	US 2001-5993	20011108

Patent Number (1)  
US 2003087125  
Kind Code (1)  
A1  
Patent Publication Date (1)  
20030508  
Application Number (1)  
US 2001-5993  
Application Date (1)  
20011108  
Priority Patent Number (1)  
US 2001-5993  
Priority Patent Publication Date (1)  
20011108

L24 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Aromatic heterocyclic derivatives and organic electroluminescent device using them  
Author/Inventor  
Matsura, Mitsunobu; Yamada, Taketoshi; Kita, Hiroshi  
Patent Assignee/Corporate Source  
Konica Co., Japan  
Source  
Jpn. Kokai Tokkyo Koho, 38 pp. CODEN: JKXXAF  
Document Type  
Patent  
Language  
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003045662	A	20030214	JP 2001-233461	20010801

Patent Number (1)  
JP 2003045662  
Kind Code (1)  
A  
Patent Publication Date (1)  
20030214  
Application Number (1)  
JP 2001-233461  
Application Date (1)  
20010801  
Priority Patent Number (1)  
JP 2001-233461  
Priority Patent Publication Date (1)  
20010801

L24 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

Title Electroluminescent (EL) devices  
Author/Inventor Hu, Nan-Xing; Aziz, Hany; Jain, Poonam; Popovic, Zoran D.  
Patent Assignee/Corporate Source Xerox Corporation, USA

Source U.S. Pat. Appl. Publ., 46 pp. CODEN: USXXCO

Document Type Patent

Language English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002132134	A1	20020919	US 2001-771311	20010126

Patent Number (1)  
US 2002132134

Kind Code (1)  
A1

Patent Publication Date (1)  
20020919

Application Number (1)  
US 2001-771311

Application Date (1)  
20010126

Priority Patent Number (1)  
US 2001-771311

Priority Kind Code (1)  
A3

Priority Patent Publication Date (1)  
20010126

L24 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

Title Triazine compositions

Author/Inventor Hu, Nan-Xing; Popovic, Zoran D.; Ong, Beng S.; Aziz, Hany  
Patent Assignee/Corporate Source Xerox Corporation, USA

Source U.S., 19 pp., Cont.-in-part of U.S. 6,057,048. CODEN: USXXAM

Document Type Patent

Language English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6229012	B1	20010508	US 2000-489527	20000121

Patent Number (1)  
US 6229012

Kind Code (1)  
B1

Patent Publication Date (1)  
20010508

Application Number (1)  
US 2000-489527

Application Date (1)  
20000121

Priority Patent Number (1)  
US 1998-164753

Priority Kind Code (1)  
A2

Priority Patent Publication Date (1)  
19981001

L24 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

Title Triazine derivatives and electroluminescent (EL) devices using them

Author/Inventor Esteghamatian, Mohammad; Hu, Nan-xing; Popovic, Zoran D.; Hor, Ah-mee; Ong, Beng S.

Patent Assignee/Corporate Source

Xerox Corporation, USA

Source

U.S., 21 pp. CODEN: USXXAM

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6225467	B1	20010501	US 2000-489754	20000121

Patent Number (1)

US 6225467

Kind Code (1)

B1

Patent Publication Date (1)

20010501

Application Number (1)

US 2000-489754

Application Date (1)

20000121

Priority Patent Number (1)

US 2000-489754

Priority Patent Publication Date (1)

20000121

L24 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Electroluminescent material, electroluminescent element and color conversion filter

Author/Inventor

Kita, Hiroshi; Suzuri, Yoshiyuki; Yamada, Taketoshi; Nakamura, Kazuaki; Ueda, Noriko; Okubo, Yasushi

Patent Assignee/Corporate Source

Konica Corporation, Japan

Source

Eur. Pat. Appl., 80 pp. CODEN: EPXXDW

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1013740	A2	20000628	EP 1999-125813	19991223

Patent Number (1)

EP 1013740

Kind Code (1)

A2

Patent Publication Date (1)

20000628

Application Number (1)

EP 1999-125813

Application Date (1)

19991223

Priority Patent Number (1)

JP 1998-370452

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

19981225

L24 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Amino compound, manufacture of the compound, and its use in electrophotographic photoconductor and electroluminescent device

Author/Inventor

Fujino, Yasumitsu; Ueda, Hideaki; Furukawa, Keiichi

Patent Assignee/Corporate Source

Minolta Camera Co., Ltd., Japan

Source

Jpn. Kokai Tokkyo Koho, 32 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000169448	A	20000620	JP 1998-346820	19981207

Patent Number (1)

JP 2000169448

Kind Code (1)

A

Patent Publication Date (1)

20000620

Application Number (1)

JP 1998-346820

Application Date (1)

19981207

Priority Patent Number (1)

JP 1998-346820

Priority Patent Publication Date (1)

19981207

L24 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Electroluminescent (EL) devices

Author/Inventor

Hu, Nan-xing; Esteghamatian, Mohammad; Qi, Yu; Popovic, Zoran D.; Ong, Beng S.; Hor, Ah-mee

Patent Assignee/Corporate Source

Xerox Corp., USA

Source

U.S., 31 pp. CODEN: USXXAM

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6057048	A	20000502	US 1998-164753	19981001

Patent Number (1)

US 6057048

Kind Code (1)

A

Patent Publication Date (1)

20000502

Application Number (1)

US 1998-164753

Application Date (1)

19981001

Priority Patent Number (1)

US 1998-164753

Priority Kind Code (1)

A2

Priority Patent Publication Date (1)

19981001

L24 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Self-assembly of ten molecules into a nanometer-sized organic host frameworks

Author/Inventor

Fujita, Makoto; Oguro, Daichi; Miyazawa, Mayumi; Oka, Hiroko; Yamaguchi, Kentaro; Ogura, Katsuyuki

Patent Assignee/Corporate Source

Fac. Eng., Chiba Univ., Chiba, 263, Japan

Source

Nature (London) (1995), 378(6556), 469-71 CODEN: NATUAS; ISSN: 0028-0836

Document Type

Journal

Language

English

L24 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Heteroaroxyls, III. Methoxy- and hydroxytriphenylpyridines as precursors for oxyl radicals of heterocycles, 1  
 Author/Inventor Teuber, Hans Joachim; Schuetz, Guenther; Bader, Hans J.  
 Patent Assignee/Corporate Source Inst. Org. Chem., Univ. Frankfurt, Frankfurt/Main, Fed. Rep. Ger.  
 Source Justus Liebig's Annalen der Chemie (1977 ), (8), 1321-34 CODEN: JLACBF; ISSN: 0075-4617  
 Document Type Journal  
 Language German

L24 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

Title Ring extension in the pyrrole series. Electrochemical oxidation of two 2,3,4,5-tetraarylpyrroles in nitromethane  
 Author/Inventor Libert, Michel; Cauillet, Claude  
 Patent Assignee/Corporate Source Groupe Rech. Chim. Anal., Inst. Sci. Haute-Normandie, Mont-Saint-Aignan, Fr.  
 Source Comptes Rendus des Seances de l'Academie des Sciences, Serie C: Sciences Chimiques (1973 ), 276(13), 1073-6 CODEN: CHDCAQ; ISSN: 0567-6541  
 Document Type Journal  
 Language French

L24 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

Title Dyeing synthetic polyamide fibers with triazine dyes  
 Author/Inventor Kimura, Hiroo; Arimoto, Heiji; Tsuneshita, Tomonari; Kanno, Mitsuyoshi  
 Patent Assignee/Corporate Source Yumichika Co.  
 Source Jpn. Tokkyo Koho, 4 pp. CODEN: JAXXAD  
 Document Type Patent  
 Language Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 45030072	B4	19700930	JP	19680620

Patent Number (1)  
 JP 45030072  
 Kind Code (1)  
 B4  
 Patent Publication Date (1)  
 19700930  
 Application Number (1)  
 JP  
 Application Date (1)  
 19680620

=>

---Logging off of STN---

Connection closed by remote host  
 END

Unable to generate the STN prompt.  
 Exiting the script...

Connecting via Winsock to STN



Welcome to STN International! Enter x:X

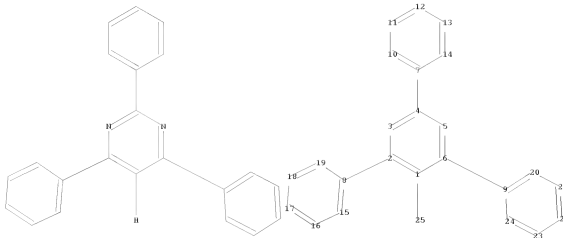
LOGINID:SSPTAMEN1774

PASSWORD:

TERMINAL {ENTER 1, 2, 3, OR ?}:2

\*\*\*\*\* Welcome to STN International \*\*\*\*\*

=>



chain nodes :

25

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

chain bonds :

1-25 2-8 4-7 6-9

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-10 7-14 8-15 8-19 9-20 9-24 10-11 11-12 12-13 13-14 15-16 16-17 17-18 18-19  
20-21 21-22 22-23 23-24

exact bonds :

1-25 2-8 4-7 6-9

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-10 7-14 8-15 8-19 9-20 9-24 10-11 11-12 12-13 13-14 15-16 16-17 17-18 18-19  
20-21 21-22 22-23 23-24

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom  
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS

L1 STRUCTURE UPLOADED

=> s l1 sss full

FULL SEARCH INITIATED 08:14:20 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 7394 TO ITERATE

100.0% PROCESSED 7394 ITERATIONS  
SEARCH TIME: 00.00.01

589 ANSWERS

L2 589 SEA SSS FUL L1

-> s l2 and prep/rl  
159 L2

4541185 PREP/RL  
L3 120 L2 AND PREP/RL

-> s l3 and py<-2003  
23979572 PY<-2003

L4 84 L3 AND PY<-2003

-> s l3 and py<-2002  
22929158 PY<-2002

L5 83 L3 AND PY<-2002

-> d l5 1-10 ibib abs

L5 ANSWER 1 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Cross-coupling reactions with boronic acids in water catalysed by oxime-derived palladacycles

Author/Inventor

Botella, Luis; Najera, Carmen

Patent Assignee/Corporate Source

Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Alicante, Alicante, E-03080, Spain

Source

Journal of Organometallic Chemistry (2002 ), 663(1-2), 46-57 CODEN: JORCAI; ISSN: 0022-328X

Document Type

Journal

Language

English

Abstract

Palladacycles derived from phenone-oximes I (R1 = Me, R2 = H; R1 = Me, R2 = OH; R1 = 4-HOC6H4, R2 = OH) are efficient precatalysts for the Suzuki-Miyaura coupling of arylboronic acids 4-RC6H4B(OH)2 (R = H, CF3, Me, F) with aromatic and heteroarom. bromides and chlorides, e.g. 4-R3C6H4R4 (R3 = Br, Cl, R4 = COMe, OMe), under water-refluxing aerobic conditions to give different biaryls, e.g. 4-RC6H4C6H4R4-4. Alternatively, the coupling can also be carried out at room temperature in methanol-water. Aryl bromides gave biaryls with TON (turnover nos.) up to 105 and TOF (turnover frequencies) up to 7 + 104 h-1. Activated and deactivated aryl chlorides need the presence of TBAB for the couplings, showing slightly lower efficiency (TON up to 9000 and TOF up to 3850 h-1). C(sp2)-C(sp3) bonds can also be formed by cross-coupling reactions of trimethylboroxine and butylboronic acid with aromatic bromides and chlorides under water reflux and of benzylic and allylic chlorides or acetates with arylboronic acids in acetone-water at room temperature

L5 ANSWER 2 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN

Title

A convenient method for the preparation of highly substituted pyrimidines: Synthesis of tri- and tetra-substituted pyrimidines from 1,3-dicarbonyl compounds and N,N,N'-tris(trimethylsilyl)amides

Author/Inventor

Ghosh, Usha; Katzenellenbogen, John A.

Patent Assignee/Corporate Source

Department of Chemistry, University of Illinois, Urbana, IL, 61801, USA

Source

Journal of Heterocyclic Chemistry (2002 ), 39(5), 1101-1104 CODEN: JHTCAD; ISSN: 0022-152X

Document Type

Journal

Language

English

Abstract

A modification of the Pinner pyrimidine synthesis has been developed that utilizes trimethylsilyl amidine I and results in greatly improved yield of highly substituted pyrimidines, e.g. II.

L5 ANSWER 3 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Preparation of aromatic carboxylic acids as Flt-1 ligands.

Author/Inventor

Arrhenius, Thomas; Huang, Yujin; Zhang, Lin; Serafimov, Rossy; Nadzan, Alex; Spinella, Dominic

Patent Assignee/Corporate Source

Chugai Seiyaku Kabushiki Kaisha, Japan

Source

PCT Int. Appl., 38 pp. CODEN: PIXXD2

## Document Type

Patent

## Language

English

## Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002/76438	A2	20021003	WO 2002-US8862	20020321

Patent Number (1)

WO 2002/76438

Kind Code (1)

A2

Patent Publication Date (1)

20021003

Application Number (1)

WO 2002-US8862

Application Date (1)

20020321

Priority Patent Number (1)

US 2001-278156P

Priority Kind Code (1)

P

Priority Patent Publication Date (1)

20010323

## Abstract

R1R2WAr [W = Ph, pyridyl, pyrimidyl, oxadiazolyl, triazolyl; Ar = (substituted) aryl; R1 = R4VB, Q1, Q2; A = (substituted) Ph, amino, amido, ester, O, B = oxy, alkoxy, arylcarbonyl, arylcarbonylamino, bond, carbonyloxy; V = Ph, furyl, thienyl, pyridyl, pyrrolyl; X, Y = H; XY = O, Z = O, N, S; R2 = aryl, H, OH, halo, CO2H, R1; R3 = 1-2 of OH, alkoxy, NO2, sulfoxy, carboxy ester, etc.; R4 = 1-2 of amino, alkoxy, NO2, CO2H, OH, alkoxyalkyl, alkylthio, halo, haloalkyl, alkyl, Ph, pyridyl, etc.; z1 of R3, R4 = CO2H, CO2H-substituted radical], were prepared. Thus, Et 4-nitrobenzoylacetate and benzamide hydrochloride were refluxed 5 h in EtOH to give 88% 6-(4-nitrophenyl)-2-phenylpyrimidin-4-ol. The latter was heated with Me 4-bromomethylbenzoate Et3N in DMF at 80° for 1 h to give 93% Me 4-[[[6-(4-nitrophenyl)-2-phenylpyrimidin-4-yl]oxy]methyl]benzoate. Reflux of this with Fe and HOAc in EtOH for 8 h gave 97% Me 4-[[[6-(4-aminophenyl)-2-phenylpyrimidin-4-yl]oxy]methyl]benzoate. The amine was heated with 1,2,4-benzenetricarboxylic anhydride in PhMe at 150° for 30 min. to give 66% 2-[4-[6-[[4-(methoxycarbonyl)benzyl]oxy]-2-phenylpyrimidin-4-yl]phenyl]-1,3-dioxoisindoline-5-carboxylic acid, which was stirred with aqueous KOH in THF for 24 h to give 35% 2-[4-[6-[[4-carboxybenzyl]oxy]-2-phenylpyrimidin-4-yl]phenyl]-1,3-dioxoisindoline-5-carboxylic acid.

L5 ANSWER 4 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN

## Title

Reaction of  $\alpha,\alpha$ -Dibromo Oxime Ethers with Grignard Reagents: Alkylative Annulation Providing a Pyrimidine Core

## Author/Inventor

Kakiya, Hirotada; Yagi, Kazunari; Shinokubo, Hiroshi; Oshima, Koichiro

## Patent Assignee/Corporate Source

Graduate School of Engineering, Department of Material Chemistry, Kyoto University, Kyoto, 606-8501, Japan

## Source

Journal of the American Chemical Society (2002 ), 124(31), 9032-9033 CODEN: JACSAT; ISSN: 0002-7863

## Document Type

Journal

## Language

English

## Abstract

A convergent synthesis of a pyrimidine core has been achieved. Treatment of  $\alpha,\alpha$ -dibromo oxime ethers, which are easily derived from the corresponding esters, with a variety of Grignard reagents provides trisubstituted pyrimidines in good yields. This new method offers easy access to functionalized pyrimidines.

L5 ANSWER 5 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN

## Title

Formation of hexagonal columnar phases by heterocyclic pyrimidine derivatives

## Author/Inventor

Lin, Yang-Chu; Lai, Chung K.; Chang, Yuan-Chieh; Liu, Kwang-Ting

## Patent Assignee/Corporate Source

Department of Chemistry, National Taiwan University, Taipei, 104, Taiwan

## Source

Liquid Crystals (2002 ), 29(2), 237-242 CODEN: LICRE6; ISSN: 0267-8292

## Document Type

Journal

## Language

English

## Abstract

The synthesis, characterization, and mesomorphic properties of a new type of heteronuclear compds. derived from pyrimidine as core group are reported. These compds. were prepared by condensation reactions of appropriate acetophenones and benzonitriles in the presence of trifluoromethanesulfonic anhydride. They were characterized by 1H and 13C NMR spectroscopy and elemental

anal., and their phase transitions characterized and studied by thermal anal. and polarizing microscopy. These compds. exhibit hexagonal columnar (Colh) phases, as expected for disk-like mols.; the formation of columnar phases is dependent on the nos. of alkoxy side chains attached. For those compds. having the same nos. of flexible side chains attached, the one with a preferred unsym. structure exhibited better mesomorphic properties. The observed improved mesomorphic behavior of these compds. over other similar all-C heterocyclic compds. is attributed to the greater polarization of N atoms in the core ring.

L5 ANSWER 6 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Arylation of Halogenated Pyrimidines via a Suzuki Coupling Reaction

Author/Inventor

Schomaker, Jennifer M.; Delia, Thomas J.

Patent Assignee/Corporate Source

Malcolm H. Filson Laboratories Department of Chemistry, Central Michigan University, Mt. Pleasant, MI, 48859, USA

Source

Journal of Organic Chemistry (2001), 66(21), 7125-7128 CODEN: JOCEAH; ISSN: 0022-3263

Document Type

Journal

Language

English

Abstract

The Suzuki coupling reaction was used extensively for the synthesis of a wide variety of unsym. biaryl compds. The authors have extended this reaction to demonstrate the utility of preparing monophenyl-, diphenyl-, or triphenylpyrimidine depending on the reaction conditions. Further, chloropyrimidine substrates are preferable over iodo-, bromo-, or fluoropyrimidines.

L5 ANSWER 7 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Synthesis of 2,4,6-tris[4-(N-isopropylamino)phenyl]pyrimidine trihydrochloride

Author/Inventor

Bajic, Miroslav; Boykin, David W.

Patent Assignee/Corporate Source

Department of Organic Chemistry, Faculty of Chemical Engineering and Technology, University of Zagreb, Zagreb, 10000, Croatia

Source

Molecules [online computer file] (2001), 6(5), 477-480 CODEN: MOLEFW; ISSN: 1420-3049 URL:

<http://www.mdpi.org/molecules/papers/60500477.pdf>

Document Type

Journal; (online computer file)

Language

English

Abstract

The title compound, I [R = C(NH)NHCHMe2]·3HCl, is prepared from 1,3-bis(4-bromophenyl)-2-propen-1-one and 4-bromobenzamidine via I (R = Br) and I (R = CN).

L5 ANSWER 8 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Symmetric building blocks and combinatorial functional group transformation as versatile strategies in combinatorial chemistry

Author/Inventor

Fruchtel, Jorg Steffen; Pflegseder, Karin; Gstach, Hubert

Patent Assignee/Corporate Source

Novartis Forschungsinstitut Wien, Vienna, A-1235, Austria

Source

Biotechnology and Bioengineering (2001), Volume Date 2000-2001, 71(2), 94-103 CODEN: BIBIAU; ISSN: 0006-3592

Document Type

Journal

Language

English

Abstract

The dicarboxamides I [X = (CH2)5, 1,4-C6H4, 2,5-thiophenediyl, 3,5-pyridinediyl; R = (un)substituted Ph, 2-pyridyl, 2-thienyl; R1 = cyclopropyl, CMe3, 1-adamantyl, (un)substituted Ph, 3-pyridyl, 2-thienyl] were prepared by treating Tenta-Gel Rink amide resin with X(CO2H)2, followed by 3-H2NOC6H4COMe, RCHO, and R1C(NH)NH2, and cleaving from the resin.

L5 ANSWER 9 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN

Title

A novel three-component one-pot pyrimidine synthesis based upon a coupling-isomerization sequence

Author/Inventor

Mueller, Thomas J. J.; Braun, Roland; Ansgore, Markus

Patent Assignee/Corporate Source

Department Chemie, Ludwig-Maximilians-Universitaet Muenchen, Munich, D-81377, Germany

Source

Organic Letters (2000), 2(13), 1967-1970 CODEN: ORLEF7; ISSN: 1523-7060

Document Type

Journal  
Language  
English

**Abstract** 2,4,6-Tri(hetero)aryl-substituted pyrimidines, e.g. I, can be readily synthesized in a three-component one-pot process based upon a coupling-isomerization sequence of an electron-poor (hetero)aryl halide, e.g., 4-IC<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>, and a terminal propargyl alc., e.g. II, subsequently followed by a cyclocondensation with amidinium salts.

L5 ANSWER 10 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN  
Title

Preparation of polyimides pyrimidine-containing diamines

Author/Inventor

Artem'eva, V. N.; Shamanin, V. V.; Borovik, V. P.; Shkurko, O. P.; Nekrasova, E. M.; Lyubimova, G. V.; Kudryavtsev, V. V.

Patent Assignee/Corporate Source

Inst. Vysokomol. Soedinenii, RAN, St. Petersburg, Russia

Source

Zhurnal Prikladnoi Khimii (Sankt-Peterburg) ( 2000 ), 73(1), 123-128 CODEN: ZPKHAB; ISSN: 0044-4618

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Journal

Language

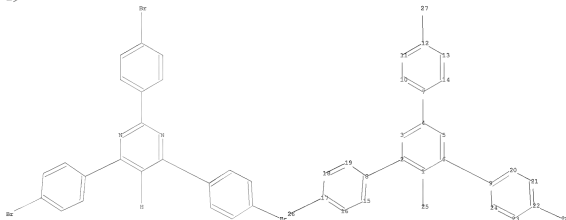
Russian

**Abstract**

Polymerization kinetics of 3,3',4,4'-benzophenonetetracarboxylic dianhydride with a series of pyrimidine-containing diamines was studied. Kinetics of thermal imidation of polyamic acids was investigated. Pyrimidine ring plays the role of a catalyst in imidation of the polyamic acids.

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chain nodes :

25 26 27 28

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

chain bonds :

1-25 2-8 4-7 6-9 12-27 17-26 22-28

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-10 7-14 8-15 8-19 9-20 9-24 10-11 11-12 12-13 13-14 15-16 16-17 17-18 18-19  
20-21 21-22 22-23 23-24

exact bonds :

1-25 2-8 4-7 6-9 12-27 17-26 22-28

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-10 7-14 8-15 8-19 9-20 9-24 10-11 11-12 12-13 13-14 15-16 16-17 17-18 18-19  
20-21 21-22 22-23 23-24

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom  
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:CLASS  
27:CLASS 28:CLASS

L6 STRUCTURE UPLOADED

=> s 16 exa full  
FULL SEARCH INITIATED 08:35:29 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 10 TO ITERATE

100.0% PROCESSED 10 ITERATIONS 1 ANSWERS  
SEARCH TIME: 00.00.01

L7 1 SEA EXA FUL L6

=> s 17  
L8 2 L7

=> d 18 1-2 ibib

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

Title Electroluminescent devices comprising pyrimidine derivatives  
Author/Inventor Schaefer, Thomas; Bujard, Patrice; Rogers, Jonathan; Bardon, Kristina  
Patent Assignee/Corporate Source Ciba Specialty Chemicals Holding Inc., USA  
Source PCT Int. Appl., 102 pp. CODEN: PIXXD2

Document Type  
Patent

Language  
English

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A  
Priority Patent Publication Date (1)  
20021030

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

Title Synthesis of 2,4,6-tris[4-(N- isopropylamidino)phenyl]pyrimidine trihydrochloride  
Author/Inventor Bajic, Miroslav; Boykin, David W.  
Patent Assignee/Corporate Source Department of Organic Chemistry, Faculty of Chemical Engineering and Technology, University of Zagreb, Zagreb, 10000, Croatia  
Source Molecules [online computer file] (2001), 6(5), 477-480 CODEN: MOLEFW; ISSN: 1420-3049 URL:  
<http://www.mdpi.org/molecules/papers/60500477.pdf>  
Document Type

Journal: (online computer file)

Language

English

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